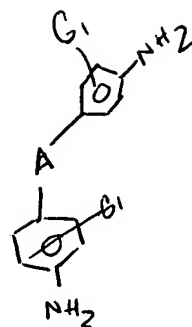


FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
 L2 STRUCTURE UPLOADED
 L3 2955 S L1 FULL
 L4 108 S L2 FULL
 L5 SCREEN 2067 OR 2068
 L6 STRUCTURE UPLOADED
 L7 QUE L6 NOT L5
 L8 SCREEN 2067 OR 2068
 L9 STRUCTURE UPLOADED
 L10 QUE L9 NOT L8
 L11 63 S L7 FULL
 L12 80 S L10 FULL



o, m + para positions

A = -s- or -s-s-

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004

L13 38913 S PHOTORESIST OR RESIST COMPOSITION
 L14 437 S L11
 L15 574 S L12
 L16 0 S L13 AND L14
 L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004

L18 SCREEN 2067 OR 2068
 L19 STRUCTURE UPLOADED
 L20 QUE L19 NOT L18
 L21 SCREEN 2067 OR 2068
 L22 STRUCTURE UPLOADED
 L23 QUE L22 NOT L21
 L24 2 S L20
 L25 6 S L23

FILE 'CAPLUS' ENTERED AT 16:30:23 ON 02 DEC 2004

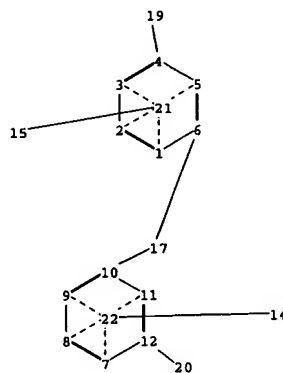
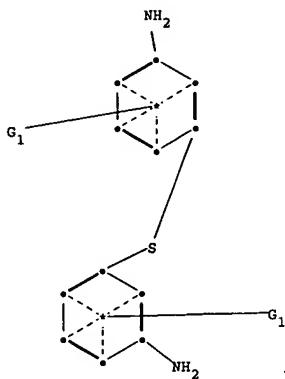
L26 1 S L13 AND (L24 OR L25)

FILE 'REGISTRY' ENTERED AT 16:30:49 ON 02 DEC 2004

L27 SCREEN 2067 OR 2068
 L28 STRUCTURE UPLOADED
 L29 QUE L28 NOT L27
 L30 SCREEN 2067 OR 2068
 L31 STRUCTURE UPLOADED
 L32 QUE L31 NOT L30
 L33 23 S L29 FULL
 L34 11 S L32 FULL

FILE 'CAPLUS' ENTERED AT 16:31:46 ON 02 DEC 2004

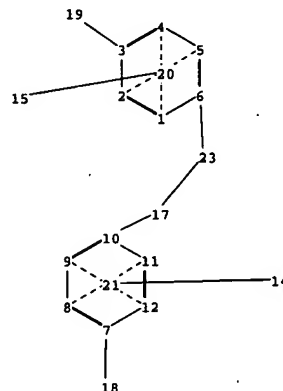
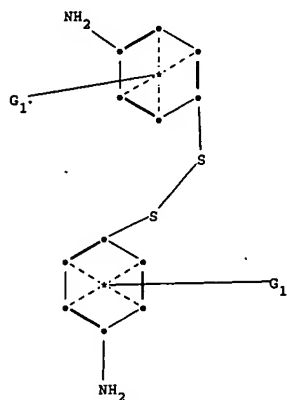
=> s l13 and (l33 or l34)
 45 L33
 23 L34
 L35 0 L13 AND (L33 OR L34)
 =>



chain nodes :
14 15 17 19 20
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
4-19 6-17 10-17 12-20
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
4-19 6-17 10-17 12-20
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Connectivity :
17:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
12:Atom 14:CLASS 15:CLASS 17:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS



chain nodes :
 14 15 17 18 19 23
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12
 chain bonds :
 3-19 6-23 7-18 10-17 17-23
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
 exact/norm bonds :
 3-19 6-23 7-18 10-17 17-23
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Connectivity :
 17:2 E exact RC ring/chain 23:2 E exact RC ring/chain

Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom
 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS 23:CLASS

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:sssptal809rxa

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 4 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 5 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 6 SEP 27 STANDARDS will no longer be available on STN
NEWS 7 SEP 27 SWETSCAN will no longer be available on STN
NEWS 8 OCT 28 KOREAPAT now available on STN
NEWS 9 NOV 18 Current-awareness alerts, saved answer sets, and current
search transcripts to be affected by CERAB, COMPUAB, ELCOM,
and SOLIDSTATE reloads
NEWS 10 NOV 30 PHAR reloaded with additional data
NEWS 11 DEC 01 LISA now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6
DICTIONARY FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

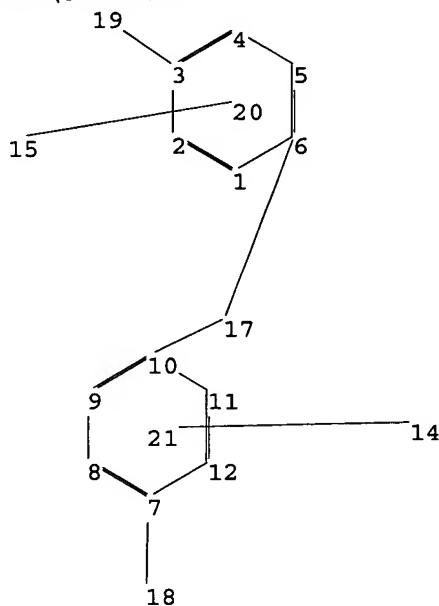
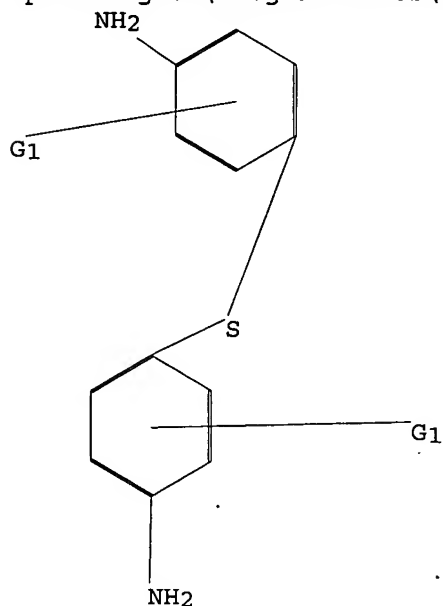
Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\355v.str



chain nodes :

14 15 17 18 19

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

3-19 6-17 7-18 10-17

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

3-19 6-17 7-18 10-17

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

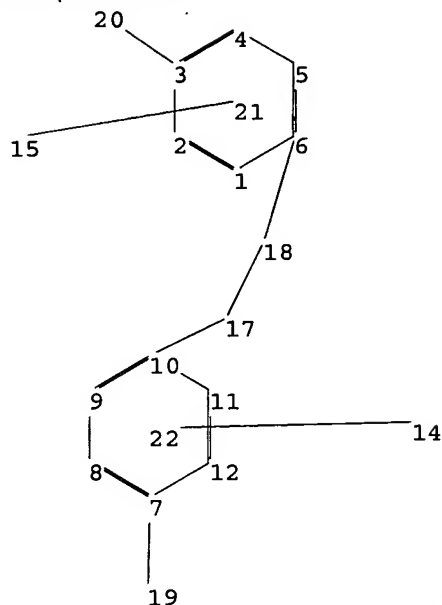
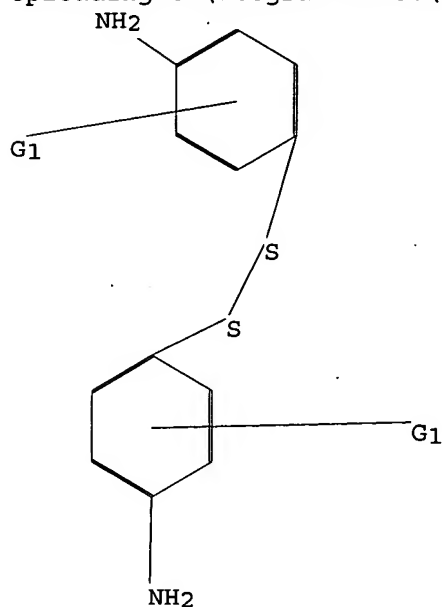
G1:H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS

L1 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\355u.str



chain nodes :

14 15 17 18 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

3-20 6-18 7-19 10-17 17-18

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

3-20 6-18 7-19 10-17 17-18

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 22:CLASS

L2 STRUCTURE UPLOADED

=> s l1 full

FULL SEARCH INITIATED 16:15:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 25265 TO ITERATE

100.0% PROCESSED 25265 ITERATIONS

2955 ANSWERS

SEARCH TIME: 00.00.01

L3 2955 SEA SSS FUL L1

=> s l2 full

FULL SEARCH INITIATED 16:15:14 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 1148 TO ITERATE

100.0% PROCESSED 1148 ITERATIONS
SEARCH TIME: 00.00.01

108 ANSWERS

L4 108 SEA SSS FUL L2

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 2955 S L1 FULL
L4 108 S L2 FULL

=> d l3 1-3

L3 ANSWER 1 OF 2955 REGISTRY COPYRIGHT 2004 ACS on STN
RN 790712-76-4 REGISTRY
CN INDEX NAME NOT YET ASSIGNED
MF (C25 H30 N2 O4 . C15 H16 O2 . C12 H12 N2 O2 S . C3 H5 Cl O . Unspecified)x
CI PMS
PCT Epoxy resin, Manual component, Polyamine, Polyether
SR CA
LC STN Files: CAPLUS
DT.CA Caplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

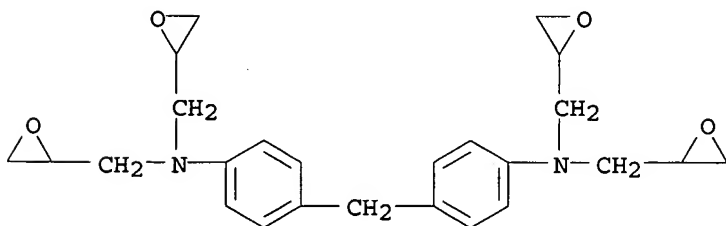
CM 1

CRN 186844-71-3
CMF Unspecified
CCI PMS, MAN

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

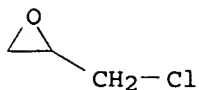
CM 2

CRN 28768-32-3
CMF C25 H30 N2 O4



CM 3

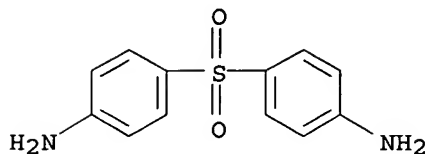
CRN 106-89-8
CMF C3 H5 Cl O



CM 4

CRN 80-08-0

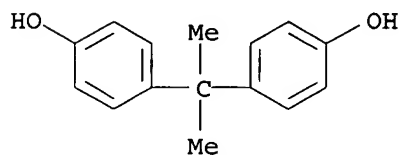
CMF C12 H12 N2 O2 S



CM 5

CRN 80-05-7

CMF C15 H16 O2



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 2955 REGISTRY COPYRIGHT 2004 ACS on STN

RN 783344-93-4 REGISTRY

CN 1,3-Isobenzofurandione, 4-chloro-, polymer with 5-chloro-1,3-isobenzofurandione, 4,4'-(1-methylethylidene)bis[phenol] and 4,4'-sulfonylbis[benzenamine] (9CI) (CA INDEX NAME)

MF (C15 H16 O2 . C12 H12 N2 O2 S . C8 H3 Cl O3 . C8 H3 Cl O3)x

CI PMS

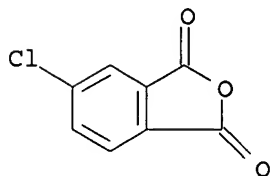
PCT Polyamide, Polyamide formed, Polyester, Polyester formed, Polysulfone

SR CAS Client Services

CM 1

CRN 118-45-6

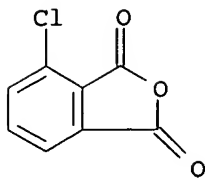
CMF C8 H3 Cl O3



CM 2

CRN 117-21-5

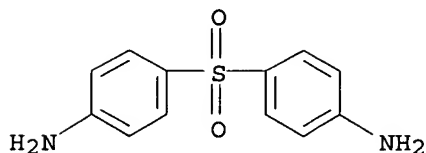
CMF C8 H3 Cl O3



CM 3

CRN 80-08-0

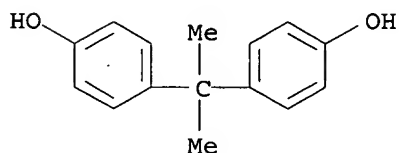
CMF C12 H12 N2 O2 S



CM 4

CRN 80-05-7

CMF C15 H16 O2



L3 ANSWER 3 OF 2955 REGISTRY COPYRIGHT 2004 ACS on STN

RN 782500-24-7 REGISTRY

CN 1,2-Benzenedicarboxylic acid, 4,4'-oxybis-, tetrakis(ethoxymethyl) ester, polymer with 4,4'-sulfonylbis[benzenamine] (9CI) (CA INDEX NAME)

MF (C28 H34 O13 . C12 H12 N2 O2 S)x

CI PMS

PCT Polyamic acid, Polyamic acid formed, Polyether, Polyimide, Polyimide formed, Polysulfone

SR CA

LC STN Files: CA, CAPLUS

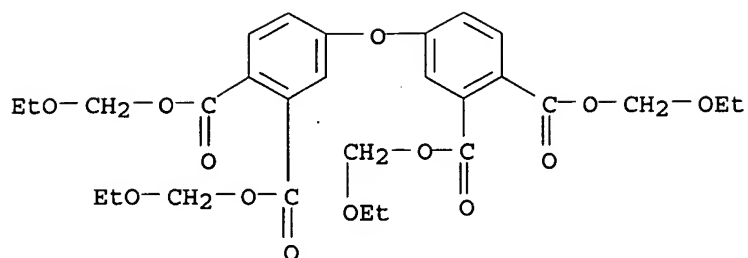
DT.CA Caplus document type: Patent

RL.P Roles from patents: PROC (Process); USES (Uses)

CM 1

CRN 782500-23-6

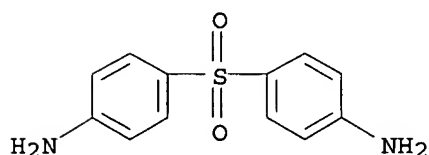
CMF C28 H34 O13



CM 2

CRN 80-08-0

CMF C12 H12 N2 O2 S



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 2955 S L1 FULL

L4 108 S L2 FULL

=> d l4 1-3

L4 ANSWER 1 OF 108 REGISTRY COPYRIGHT 2004 ACS on STN

RN 477741-48-3 REGISTRY

CN Benzenethiol, 4-amino-, compd. with 4,4'-dithiobis[benzenamine] (1:1)
(9CI) (CA INDEX NAME)

MF C12 H12 N2 S2 . C6 H7 N S

SR CA

LC STN Files: CA, CAPLUS

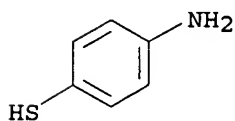
DT.CA Caplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CM 1

CRN 1193-02-8

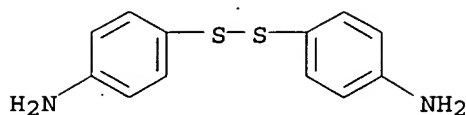
CMF C6 H7 N S



CM 2

CRN 722-27-0

CMF C12 H12 N2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 108 REGISTRY COPYRIGHT 2004 ACS on STN

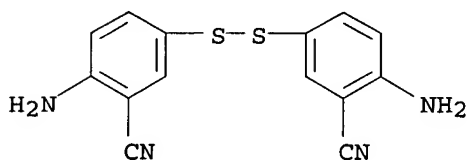
RN 345221-59-2 REGISTRY

CN Benzonitrile, 3,3'-dithiobis[6-amino- (9CI) (CA INDEX NAME)

FS 3D CONCORD

MF C14 H10 N4 S2

SR Reaction Database



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 ANSWER 3 OF 108 REGISTRY COPYRIGHT 2004 ACS on STN

RN 311773-08-7 REGISTRY

CN 1H-Cyclopenta[1,2-c:3,4-c']difuran-1,3,4,6(3aH)-tetrone, tetrahydro-, (3aR,3bS,6aS,7aR)-rel-, polymer with 1,3-cyclohexanedimethanamine and 4,4'-dithiobis[benzenamine] (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1,3-Cyclohexanedimethanamine, polymer with 4,4'-dithiobis[benzenamine] and rel-(3aR,3bS,6aS,7aR)-tetrahydro-1H-cyclopenta[1,2-c:3,4-c']difuran-1,3,4,6(3aH)-tetrone (9CI)

CN Benzenamine, 4,4'-dithiobis-, polymer with 1,3-cyclohexanedimethanamine and rel-(3aR,3bS,6aS,7aR)-tetrahydro-1H-cyclopenta[1,2-c:3,4-c']difuran-1,3,4,6(3aH)-tetrone (9CI)

FS STEREOSEARCH

MF (C12 H12 N2 S2 . C9 H6 O6 . C8 H18 N2)x

CI PMS

PCT Polyamic acid, Polyamic acid formed, Polyimide, Polyimide formed, Polysulfide

SR CA

LC STN Files: CA, CAPLUS, USPATFULL

DT.CA Caplus document type: Patent

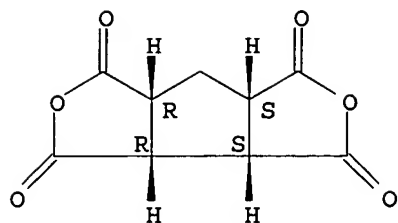
RL.P Roles from patents: PREP (Preparation); PRP (Properties); USES (Uses)

CM 1

CRN 4802-47-5

CMF C9 H6 O6

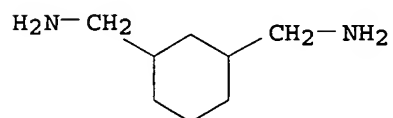
Relative stereochemistry.



CM 2

CRN 2579-20-6

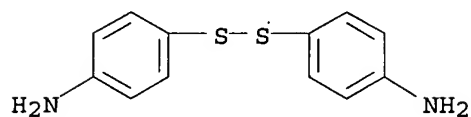
CMF C8 H18 N2



CM 3

CRN 722-27-0

CMF C12 H12 N2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=>Testing the current file..... screen

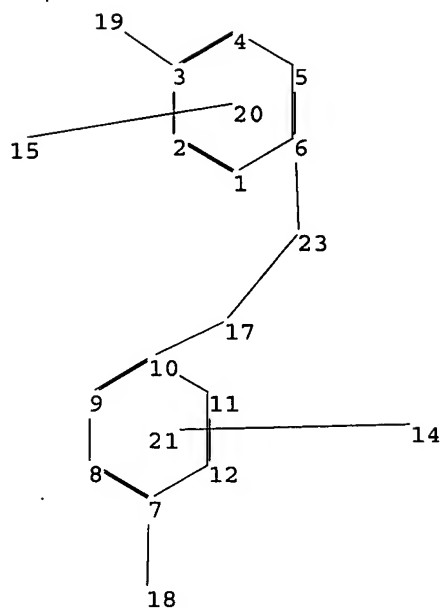
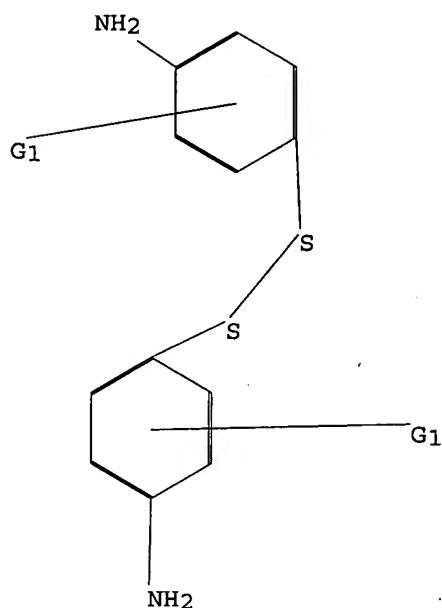
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L5 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\s2.str



```

chain nodes :
14 15 17 18 19 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
3-19 6-23 7-18 10-17 17-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
3-19 6-23 7-18 10-17 17-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

```

G1:H,Ak

```

Connectivity :
17:2 E exact RC ring/chain 23:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 23:CLASS

```

L6 STRUCTURE UPLOADED

=> que L6 NOT L5

L7 QUE L6 NOT L5

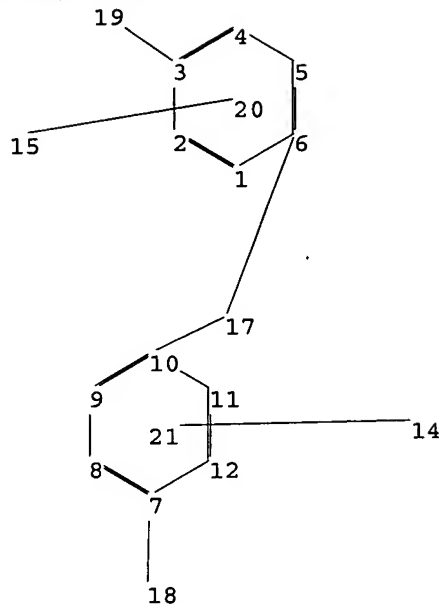
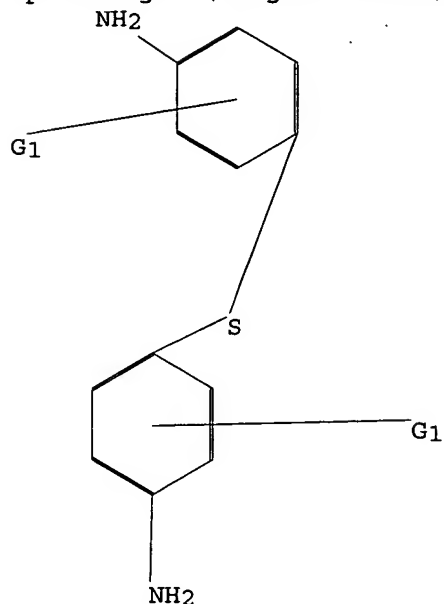
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L8 SCREEN CREATED

=> .
 Uploading C:\Program Files\Stnexp\Queries\s1.str



chain nodes :
 14 15 17 18 19
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12
 chain bonds :
 3-19 6-17 7-18 10-17
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
 exact/norm bonds :
 3-19 6-17 7-18 10-17
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Connectivity :
 17:2 E exact RC ring/chain
 Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
 21:CLASS

L9 STRUCTURE UPLOADED

=> que L9 NOT L8

L10 QUE L9 NOT L8

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
 L2 STRUCTURE UPLOADED
 L3 2955 S L1 FULL

L4 108 S L2 FULL
L5 SCREEN 2067 OR 2068
L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068
L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8

=> s l7 full
FULL SEARCH INITIATED 16:19:50 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1003 TO ITERATE

100.0% PROCESSED 1003 ITERATIONS 63 ANSWERS
SEARCH TIME: 00.00.01

L11 63 SEA SSS FUL L6 NOT L5

=> s l10 full
FULL SEARCH INITIATED 16:19:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 17597 TO ITERATE

100.0% PROCESSED 17597 ITERATIONS 80 ANSWERS
SEARCH TIME: 00.00.01

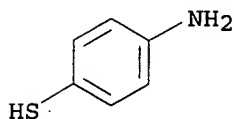
L12 80 SEA SSS FUL L9 NOT L8

=> d l11 1-3

L11 ANSWER 1 OF 63 REGISTRY COPYRIGHT 2004 ACS on STN
RN 477741-48-3 REGISTRY
CN Benzenethiol, 4-amino-, compd. with 4,4'-dithiobis[benzenamine] (1:1)
(9CI) (CA INDEX NAME)
MF C12 H12 N2 S2 . C6 H7 N S
SR CA
LC STN Files: CA, CAPLUS
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)

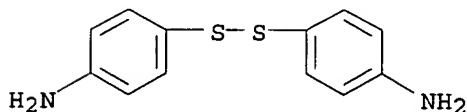
CM 1

CRN 1193-02-8
CMF C6 H7 N S



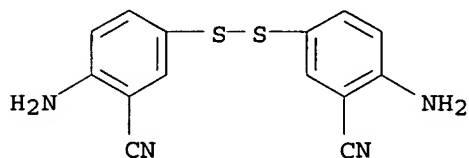
CM 2

CRN 722-27-0
CMF C12 H12 N2 S2



1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L11 ANSWER 2 OF 63 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 345221-59-2 REGISTRY
 CN Benzonitrile, 3,3'-dithiobis[6-amino- (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H10 N4 S2
 SR Reaction Database



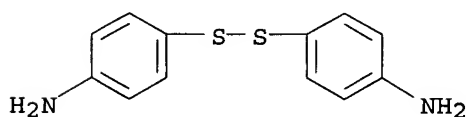
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L11 ANSWER 3 OF 63 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 296794-53-1 REGISTRY
 CN 1,2-Benzenedicarboxylic acid, 4,4'-carbonylbis-, ar,ar'-dimethyl ester, compd. with 4,4'-dithiobis[benzenamine] (1:1) (9CI) (CA INDEX NAME)
 OTHER CA INDEX NAMES:
 CN Benzenamine, 4,4'-dithiobis-, ar,ar'-dimethyl 4,4'-carbonylbis[1,2-benzenedicarboxylate] (1:1) (9CI)
 MF C19 H14 O9 . C12 H12 N2 S2
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: . PRP (Properties); RACT (Reactant or reagent)

CM 1

CRN 722-27-0

CMF C12 H12 N2 S2



CM 2

CRN 36928-64-0

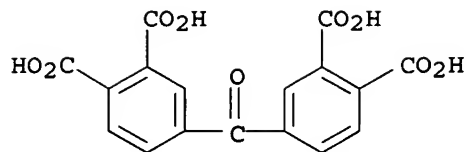
CMF C19 H14 O9

CCI IDS

CM 3

CRN 2479-49-4

CMF C17 H10 O9



CM 4

CRN 67-56-1

CMF C H4 O

H₃C-OH

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
 L2 STRUCTURE UPLOADED
 L3 2955 S L1 FULL
 L4 108 S L2 FULL
 L5 SCREEN 2067 OR 2068
 L6 STRUCTURE UPLOADED
 L7 QUE L6 NOT L5
 L8 SCREEN 2067 OR 2068
 L9 STRUCTURE UPLOADED
 L10 QUE L9 NOT L8
 L11 63 S L7 FULL
 L12 80 S L10 FULL

=> d l12 1-3

L12 ANSWER 1 OF 80 REGISTRY COPYRIGHT 2004 ACS on STN

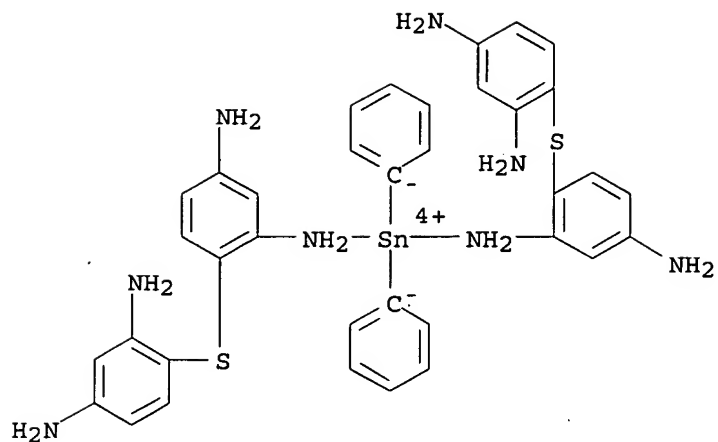
RN 776262-88-5 REGISTRY

CN Tin(2+), diphenylbis[4,4'-thiobis[1,3-benzenediamine]-N3]-, (T-4)- (9CI)
 (CA INDEX NAME)

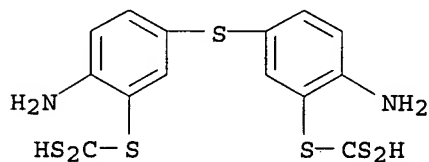
MF C36 H38 N8 S2 Sn

CI CCS, COM

SR CA



L12 ANSWER 2 OF 80 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 772284-68-1 REGISTRY
 CN Carbonotrithioic acid, thiobis(6-amino-3,1-phenylene) ester (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H12 N2 S7
 CI COM
 SR CA

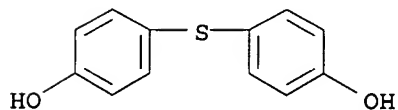


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L12 ANSWER 3 OF 80 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 761444-80-8 REGISTRY
 CN Phenol, 4,4'-thiobis-, compd. with 4,4'-thiobis[benzenamine] (1:1) (9CI) (CA INDEX NAME)
 MF C12 H12 N2 S . C12 H10 O2 S
 SR CA
 LC STN Files: CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

CM 1

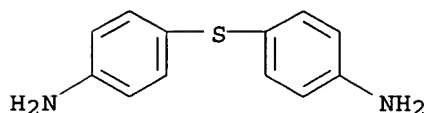
CRN 2664-63-3
 CMF C12 H10 O2 S



CM 2

CRN 139-65-1

CMF C12 H12 N2 S



1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

645.44

645.65

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FILE COVERS 1907 - 2 Dec 2004 VOL 141 ISS 23

FILE LAST UPDATED: 1 Dec 2004 (20041201/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s photoresist or resist composition

38301 PHOTORESIST

50518 RESIST

627726 COMPOSITION

989 RESIST COMPOSITION

(RESIST(W) COMPOSITION)

L13 38913 PHOTORESIST OR RESIST COMPOSITION

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 2955 S L1 FULL

L4 108 S L2 FULL

L5 SCREEN 2067 OR 2068

L6 STRUCTURE UPLOADED

L7 QUE L6 NOT L5

L8 SCREEN 2067 OR 2068

L9 STRUCTURE UPLOADED

L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

L13 FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004
38913 S PHOTORESIST OR RESIST COMPOSITION

=> s l11

L14 437 L11

=> s l12

L15 574 L12

=> s l13 and l14

L16 0 L13 AND L14

=> s l13 and l15

L17 2 L13 AND L15

=> d 1-2 bib ab hitstr

L17 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:256978 CAPLUS

DN 114:256978

TI Actinic radiation-sensitive polymerizable composition

IN Tomikawa, Masao; Eguchi, Masuichi; Kusano, Kazutaka

PA Toray Industries, Inc., Japan

SO Jpn. Kokai Tokkyo Koho, 9 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02294649	A2	19901205	JP 1989-116606	19890509
PRAI	JP 1989-116606		19890509		

AB The title composition comprises a polymer containing the structure-repeating unit

COR1(CO2R3)nCONHR2NH (R1 = C_≥2 tri or tetravalent organic group; R2 = C_≥2 divalent organic group; R3 = H, alkali metal counter ion; n = 1, 2), a compound containing amino group (quaternized amino group) and unsatd. group dimerizable or polymerizable under radiation, an aromatic azide and/or an aromatic sulfonazide, and an N-arylglycine compound The composition is useful

for patterning by g-line stepper. Thus, a N-methyl-2-pyrrolidone solution of 4,4'-diaminodiphenyl sulfide and 1,3-bis(3-aminopropyl)tetramethyldisiloxane was mixed with pyromellitic anhydride, diethylaminoethyl methacrylate, 4-azidobenzalacetophenone, and N-phenylglycine to give the title composition. Then, a Si wafer was spin-coated with the composition, dried, imagewise exposed to UV (436 nm), developed with a mixture of xylene and N-methylpyrrolidone, and rinsed with isopropanol to give a pattern showing retention of film thickness and retention of surface smoothness after heating.

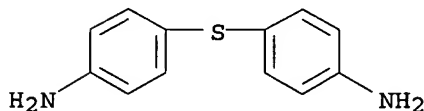
IT 139-65-1, 4,4'-Diaminodiphenyl sulfide

RL: USES (Uses)

(photoresist containing polyamic acid from, for semiconductor device fabrication)

RN 139-65-1 CAPLUS

CN Benzenamine, 4,4'-thiobis- (9CI) (CA INDEX NAME)



L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1984:148513 CAPLUS

DN 100:148513

TI Producing images in photoresist layers

IN Irving, Edward

PA Ciba-Geigy A.-G. , Switz.

SO Eur. Pat. Appl., 32 pp.

CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 85024	A2	19830803	EP 1983-810016	19830117
	EP 85024	A3	19840926		
	EP 85024	B1	19870715		
	R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
	US 4439517	A	19840327	US 1983-457107	19830110
	CA 1183038	A1	19850226	CA 1983-419783	19830119
	ES 519144	A1	19840516	ES 1983-519144	19830120
	JP 58136028	A2	19830812	JP 1983-8631	19830121
PRAI	GB 1982-1726	A	19820121		

AB Photoresist compns. are described which consist of an epoxy resin, a benzenoid polyamine, and an aromatic compound which upon exposure to light frees an acid that acts as an accelerator for the hardening of the epoxy resin by the benzenoid polyamine upon heating. Thus, a Cu-coated body was coated with a composition containing a 2,2-bis(3,5-dibromo-4-hydroxyphenyl)propane-2,2-bis(p-hydroxyphenyl)propane epoxy resin 10, a 1,1,2,2-tetrakis(p-hydroxyphenyl)ethane tetraglycidyl ether-2,2-bis(p-hydroxyphenyl)propane diglycidyl ether mixture 5, poly[2,2-bis(p-hydroxyphenyl)propane] 5, bis(4-aminophenyl)methane (in di-Bu phthalate) 4, o-nitrobenzaldehyde 4, and cyclohexanone 20 parts, exposed through a neg., heated at 120° for 15 min, and developed with PhMe to remove the unhardened areas and give a clear image.

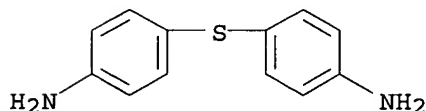
IT 139-65-1

RL: USES (Uses)

(photoresist compns. containing acid-releasing compound and epoxy resin and)

RN 139-65-1 CAPLUS

CN Benzenamine, 4,4'-thiobis- (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

17.18

662.83

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-1.40

-1.40

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STRUCTURE FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6
DICTIONARY FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 2955 S L1 FULL
L4 108 S L2 FULL
L5 SCREEN 2067 OR 2068
L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068
L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004

L13 38913 S PHOTORESIST OR RESIST COMPOSITION
L14 437 S L11
L15 574 S L12
L16 0 S L13 AND L14
L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004

=>Testing the current file.... screen

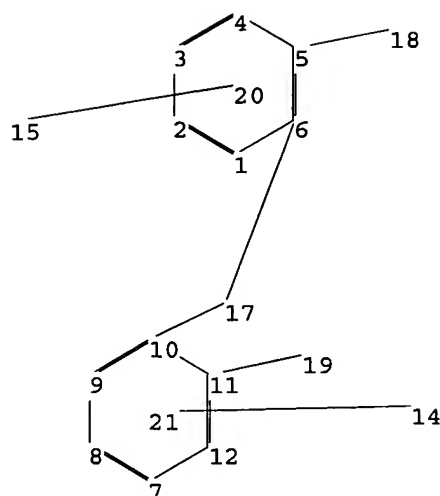
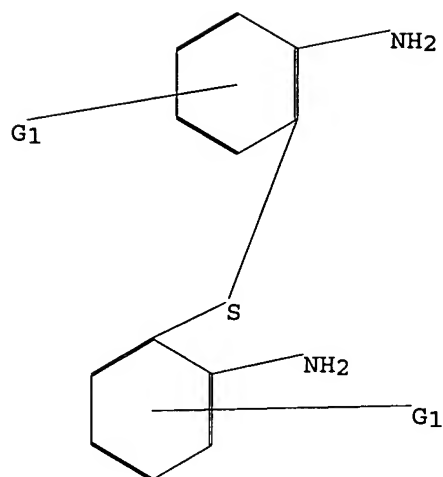
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L18 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\s3.str



```

chain nodes :
14 15 17 18 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-18 6-17 10-17 11-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
5-18 6-17 10-17 11-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

```

G1:H,Ak

```

Connectivity :
17:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS

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L19 STRUCTURE UPLOADED

=> que L19 NOT L18

L20 QUE L19 NOT L18

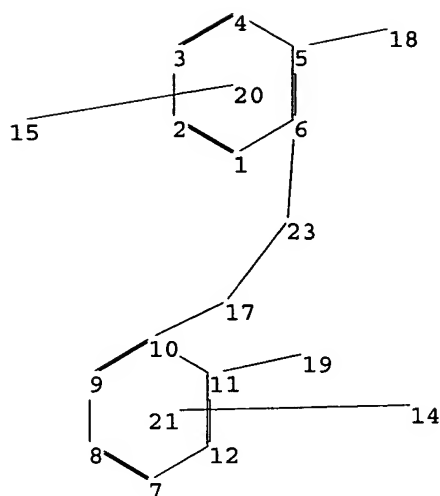
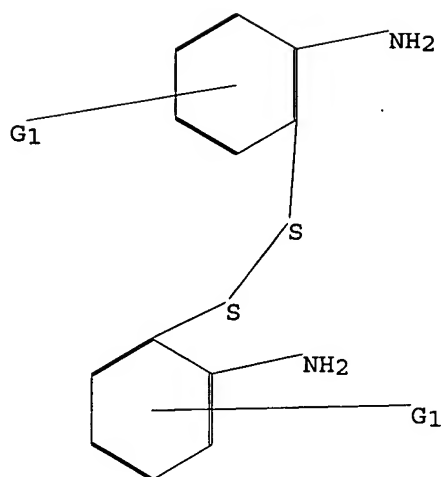
=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L21 SCREEN CREATED

=>
Uploading C:\Program Files\Stnexp\Queries\s4.str



```

chain nodes :
14 15 17 18 19 23
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
5-18 6-23 10-17 11-19 17-23
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
5-18 6-23 10-17 11-19 17-23
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

```

G1:H,Ak

```

Connectivity :
17:2 E exact RC ring/chain 23:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS' 17:CLASS 18:CLASS 19:CLASS 20:CLASS
21:CLASS 23:CLASS

```

L22 STRUCTURE UPLOADED

=> que L22 NOT L21

L23 QUE L22 NOT L21

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

```

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 2955 S L1 FULL
L4 108 S L2 FULL
L5 SCREEN 2067 OR 2068
L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068

```


L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004
L13 38913 S PHOTORESIST OR RESIST COMPOSITION
L14 437 S L11
L15 574 S L12
L16 0 S L13 AND L14
L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004
L18 SCREEN 2067 OR 2068
L19 STRUCTURE UPLOADED
L20 QUE L19 NOT L18
L21 SCREEN 2067 OR 2068
L22 STRUCTURE UPLOADED
L23 QUE L22 NOT L21

=> s 120
SAMPLE SEARCH INITIATED 16:30:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 589 TO ITERATE

100.0% PROCESSED 589 ITERATIONS 2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 10324 TO 13236
PROJECTED ANSWERS: 2 TO 124

L24 2 SEA SSS SAM L19 NOT L18

=> s 123
SAMPLE SEARCH INITIATED 16:30:09 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 53 TO ITERATE

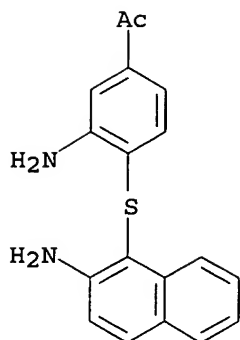
100.0% PROCESSED 53 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
 BATCH **COMPLETE**
PROJECTED ITERATIONS: 624 TO 1496
PROJECTED ANSWERS: 6 TO 266

L25 6 SEA SSS SAM L22 NOT L21

=> d 124 1-2

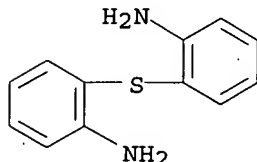
L24 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 91816-53-4 REGISTRY
CN Ethanone, 1-[3-amino-4-[(2-amino-1-naphthalenyl)thio]phenyl]- (9CI) (CA
 INDEX NAME)
FS 3D CONCORD
MF C18 H16 N2 O S
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L24 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2004 ACS on STN
RN 72319-21-2 REGISTRY
CN Benzenamine, 2,2'-thiobis-, dihydrochloride (9CI) (CA INDEX NAME)
MF C12 H12 N2 S . 2 Cl H
LC STN Files: BEILSTEIN*, CHEMLIST
(*File contains numerically searchable property data)
Other Sources: NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
CRN (5873-51-8)



● 2 HCl

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	8.58	671.41
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

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FILE COVERS 1907 - 2 Dec 2004 VOL 141 ISS 23
FILE LAST UPDATED: 1 Dec 2004 (20041201/ED)

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=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 2955 S L1 FULL
L4 108 S L2 FULL
L5 SCREEN 2067 OR 2068
L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068
L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004

L13 38913 S PHOTORESIST OR RESIST COMPOSITION
L14 437 S L11
L15 574 S L12
L16 0 S L13 AND L14
L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004

L18 SCREEN 2067 OR 2068
L19 STRUCTURE UPLOADED
L20 QUE L19 NOT L18
L21 SCREEN 2067 OR 2068
L22 STRUCTURE UPLOADED
L23 QUE L22 NOT L21
L24 2 S L20
L25 6 S L23

FILE 'CAPLUS' ENTERED AT 16:30:23 ON 02 DEC 2004

=> s l13 and (l24 or l25)

1 L24
441 L25
L26 1 L13 AND (L24 OR L25)

=> d

L26 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1991:237652 CAPLUS
DN 114:237652
TI Far-UV photosensitive polymer compositions containing silsesquioxanes
IN Sakata, Yoshikazu; Ito, Toshio
PA Oki Electric Industry Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02222957	A2	19900905	JP 1989-44358	19890223
PRAI	JP 1989-44358		19890223		

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	1.50	672.91

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

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STRUCTURE FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6
DICTIONARY FILE UPDATES: 1 DEC 2004 HIGHEST RN 791553-15-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

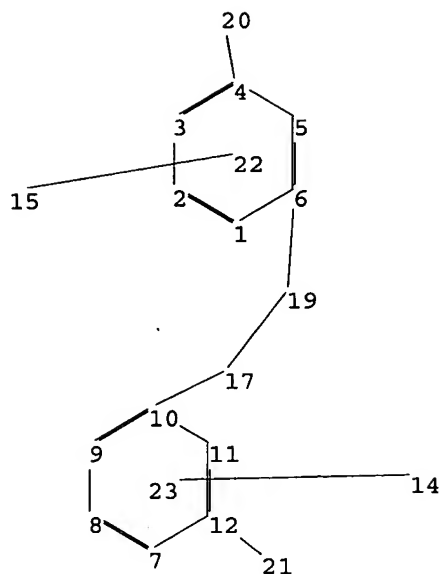
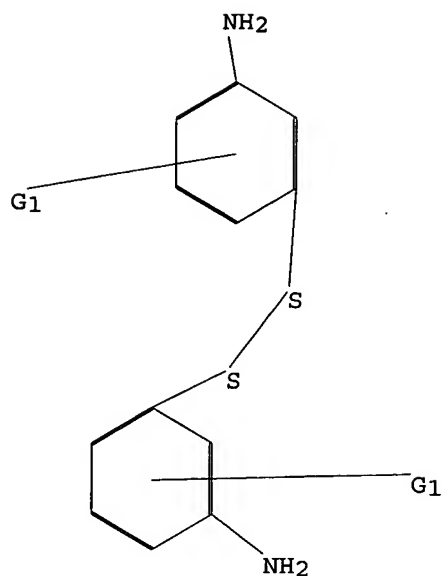
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L27 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\s5.str



```

chain nodes :
14 15 17 19 20 21
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
4-20 6-19 10-17 12-21 17-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
4-20 6-19 10-17 12-21 17-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

```

G1:H,Ak

```

Connectivity :
17:2 E exact RC ring/chain 19:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 19:CLASS 20:CLASS 21:CLASS
22:CLASS 23:CLASS

```

L28 STRUCTURE UPLOADED

=> que L28 NOT L27

L29 QUE L28 NOT L27

=>Testing the current file.... screen

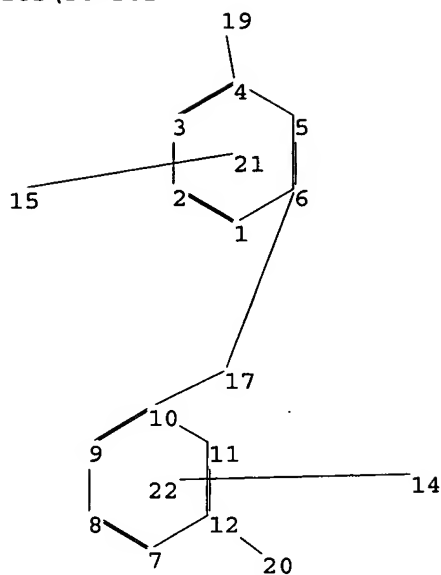
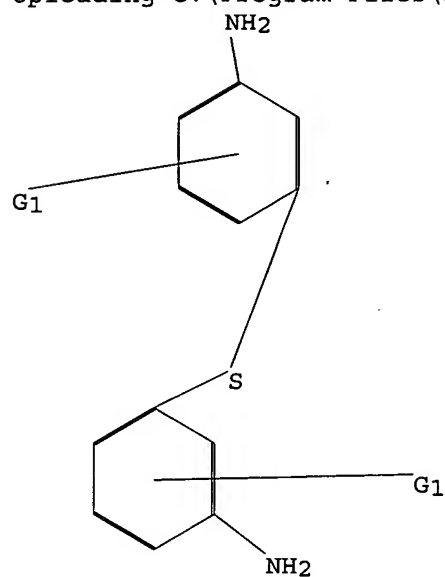
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2067 OR 2068

L30 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\s6.str



chain nodes :

14 15 17 19 20

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

4-19 6-17 10-17 12-20

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

4-19 6-17 10-17 12-20

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Connectivity :

17:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 14:CLASS 15:CLASS 17:CLASS 19:CLASS 20:CLASS 21:CLASS

22:CLASS

L31 STRUCTURE UPLOADED

=> que L31 NOT L30

L32 QUE L31 NOT L30

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED

L2 STRUCTURE UPLOADED

L3 2955 S L1 FULL

L4 108 S L2 FULL

L5 SCREEN 2067 OR 2068

L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068
L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004

L13 38913 S PHOTORESIST OR RESIST COMPOSITION
L14 437 S L11
L15 574 S L12
L16 0 S L13 AND L14
L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004

L18 SCREEN 2067 OR 2068
L19 STRUCTURE UPLOADED
L20 QUE L19 NOT L18
L21 SCREEN 2067 OR 2068
L22 STRUCTURE UPLOADED
L23 QUE L22 NOT L21
L24 2 S L20
L25 6 S L23

FILE 'CAPLUS' ENTERED AT 16:30:23 ON 02 DEC 2004

L26 1 S L13 AND (L24 OR L25)

FILE 'REGISTRY' ENTERED AT 16:30:49 ON 02 DEC 2004

L27 SCREEN 2067 OR 2068
L28 STRUCTURE UPLOADED
L29 QUE L28 NOT L27
L30 SCREEN 2067 OR 2068
L31 STRUCTURE UPLOADED
L32 QUE L31 NOT L30

=> s l29 full

FULL SEARCH INITIATED 16:31:35 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 270 TO ITERATE

100.0% PROCESSED 270 ITERATIONS
SEARCH TIME: 00.00.01

23 ANSWERS

L33 23 SEA SSS FUL L28 NOT L27

=> s l32 full

FULL SEARCH INITIATED 16:31:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 5837 TO ITERATE

100.0% PROCESSED 5837 ITERATIONS
SEARCH TIME: 00.00.01

11 ANSWERS

L34 11 SEA SSS FUL L31 NOT L30

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

310.84

983.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

0.00

-1.40

FILE 'CAPLUS' ENTERED AT 16:31:46 ON 02 DEC 2004

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FILE COVERS 1907 - 2 Dec 2004 VOL 141 ISS 23
FILE LAST UPDATED: 1 Dec 2004 (20041201/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 16:14:24 ON 02 DEC 2004)

FILE 'REGISTRY' ENTERED AT 16:14:31 ON 02 DEC 2004

L1 STRUCTURE UPLOADED
L2 STRUCTURE UPLOADED
L3 2955 S L1 FULL
L4 108 S L2 FULL
L5 SCREEN 2067 OR 2068
L6 STRUCTURE UPLOADED
L7 QUE L6 NOT L5
L8 SCREEN 2067 OR 2068
L9 STRUCTURE UPLOADED
L10 QUE L9 NOT L8
L11 63 S L7 FULL
L12 80 S L10 FULL

FILE 'CAPLUS' ENTERED AT 16:20:24 ON 02 DEC 2004

L13 38913 S PHOTORESIST OR RESIST COMPOSITION
L14 437 S L11
L15 574 S L12
L16 0 S L13 AND L14
L17 2 S L13 AND L15

FILE 'REGISTRY' ENTERED AT 16:23:09 ON 02 DEC 2004

L18 SCREEN 2067 OR 2068
L19 STRUCTURE UPLOADED
L20 QUE L19 NOT L18
L21 SCREEN 2067 OR 2068
L22 STRUCTURE UPLOADED
L23 QUE L22 NOT L21
L24 2 S L20
L25 6 S L23

FILE 'CAPLUS' ENTERED AT 16:30:23 ON 02 DEC 2004

L26 1 S L13 AND (L24 OR L25)

FILE 'REGISTRY' ENTERED AT 16:30:49 ON 02 DEC 2004

L27 SCREEN 2067 OR 2068
L28 STRUCTURE UPLOADED
L29 QUE L28 NOT L27
L30 SCREEN 2067 OR 2068
L31 STRUCTURE UPLOADED

L32 QUE L31 NOT L30
L33 23 S L29 FULL
L34 11 S L32 FULL

FILE 'CAPLUS' ENTERED AT 16:31:46 ON 02 DEC 2004

=> s l13 and (l33 or l34)

45 L33

23 L34

L35 0 L13 AND (L33 OR L34)

=> d l32

L32 HAS NO ANSWERS

L30 SCR 2067 OR 2068

L31 STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation.

L32 QUE L31 NOT L30

=>

---Logging off of 'STN---

=>

Executing the logoff script...

=> LOG Y

COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	0.44	984.19
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-1.40

STN INTERNATIONAL LOGOFF AT 16:32:37 ON 02 DEC 2004

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1809rxa

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

* * * * * Welcome to STN International * * * * *

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
NEWS 2 "Ask CAS" for self-help around the clock
NEWS 3 SEP 01 INPADOC: New family current-awareness alert (SDI) available
NEWS 4 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 5 SEP 01 New display format, HITSTR, available in WPIDS/WPINDEX/WPIX
NEWS 6 SEP 27 STANDARDS will no longer be available on STN
NEWS 7 SEP 27 SWETSCAN will no longer be available on STN
NEWS 8 OCT 28 KOREAPAT now available on STN
NEWS 9 NOV 18 Current-awareness alerts, saved answer sets, and current
search transcripts to be affected by CERAB, COMPUAB, ELCOM,
and SOLIDSTATE reloads
NEWS 10 NOV 30 PHAR reloaded with additional data
NEWS 11 DEC 01 LISA now available on STN

NEWS EXPRESS OCTOBER 29 CURRENT WINDOWS VERSION IS V7.01A, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 11 AUGUST 2004
NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS INTER General Internet Information
NEWS LOGIN Welcome Banner and News Items
NEWS PHONE Direct Dial and Telecommunication Network Access to STN
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

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STRUCTURE FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2
DICTIONARY FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>Testing the current file.... screen

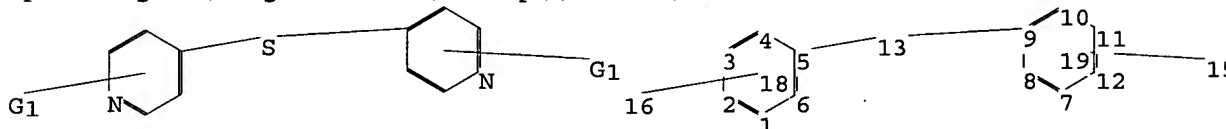
ENTER SCREEN EXPRESSION OR (END):end

=> screen 2040

L1 SCREEN CREATED

=>

Uploading C:\Program Files\Stnexp\Queries\zx.str



chain nodes :

13 15 16

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

5-13 9-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

5-13 9-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :

2:= exact 0 12:= exact 0

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:CLASS 15:CLASS 16:CLASS 18:CLASS 19:CLASS

L2 STRUCTURE UPLOADED

=> que L2 NOT L1

L3 QUE L2 NOT L1

=> s l3 full

FULL SEARCH INITIATED 15:12:47 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1989 TO ITERATE

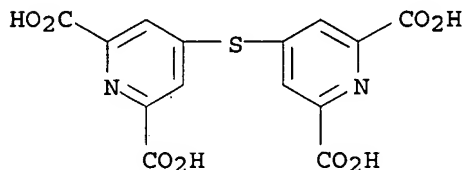
100.0% PROCESSED 1989 ITERATIONS
SEARCH TIME: 00.00.01

153 ANSWERS

L4 153 SEA SSS FUL L2 NOT L1

=> d 1-3

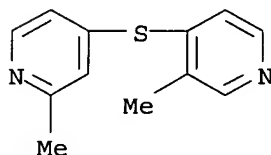
L4 ANSWER 1 OF 153 REGISTRY COPYRIGHT 2004 ACS on STN
RN 446884-12-4 REGISTRY
CN 2,6-Pyridinedicarboxylic acid, 4,4'-thiobis- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 4,4'-Thiobis[2,6-pyridinedicarboxylic acid]
FS 3D CONCORD
MF C14 H8 N2 O8 S
SR CA
LC STN Files: CA, CAPLUS, CASREACT
DT.CA Caplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

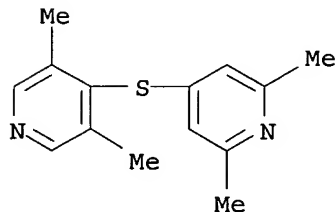
L4 ANSWER 2 OF 153 REGISTRY COPYRIGHT 2004 ACS on STN
RN 343778-36-9 REGISTRY
CN Pyridine, 2-methyl-4-[(3-methyl-4-pyridinyl)thio]- (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C12 H12 N2 S
CI COM
SR Reaction Database
LC STN Files: CASREACT



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L4 ANSWER 3 OF 153 REGISTRY COPYRIGHT 2004 ACS on STN
RN 343218-50-8 REGISTRY

CN Pyridine, 4-[(3,5-dimethyl-4-pyridinyl)thio]-2,6-dimethyl- (9CI) (CA
 INDEX NAME)
 FS 3D CONCORD
 MF C14 H16 N2 S
 CI COM
 SR Reaction Database



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

=> file caplus		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	161.15	161.36

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004
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FILE COVERS 1907 - 1 Dec 2004 VOL 141 ISS 23
 FILE LAST UPDATED: 29 Nov 2004 (20041129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s photoresist or resist composition
 38281 PHOTORESIST
 50508 RESIST
 627766.COMPOSITION
 990 RESIST COMPOSITION
 (RESIST(W)COMPOSITION)
 L5 38894 PHOTORESIST OR RESIST COMPOSITION

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040

L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

L5 FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004
38894 S PHOTORESIST OR RESIST COMPOSITION

=> s 14

L6 95 L4

=> s 15 and 16

L7 1 L5 AND L6

=> d

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:772288 CAPLUS
DN 133:357238
TI Negative-working resist composition
IN Suetsugu, Masumi; Kusumoto, Takehiro; Takeyama, Naoki; Shinada, Masanori
PA Sumitomo Chemical Co., Ltd., Japan
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 10021298	A1	20001102	DE 2000-10021298	20000502
	JP 2001147530	A2	20010529	JP 2000-88790	20000328
	TW 550268	B	20030901	TW 2000-89108000	20000427
	GB 2349479	A1	20001101	GB 2000-10477	20000428
	GB 2349479	B2	20010905		
	US 6329119	B1	20011211	US 2000-559646	20000428
PRAI	JP 1999-124526	A	19990430		
	JP 1999-254630	A	19990908		

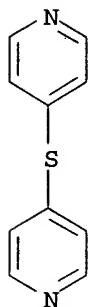
=> d bib hitstr

L7 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2000:772288 CAPLUS
DN 133:357238
TI Negative-working resist composition
IN Suetsugu, Masumi; Kusumoto, Takehiro; Takeyama, Naoki; Shinada, Masanori
PA Sumitomo Chemical Co., Ltd., Japan
SO Ger. Offen., 12 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
	-----	----	-----	-----	-----
PI	DE 10021298	A1	20001102	DE 2000-10021298	20000502
	JP 2001147530	A2	20010529	JP 2000-88790	20000328
	TW 550268	B	20030901	TW 2000-89108000	20000427
	GB 2349479	A1	20001101	GB 2000-10477	20000428
	GB 2349479	B2	20010905		
	US 6329119	B1	20011211	US 2000-559646	20000428
PRAI	JP 1999-124526	A	19990430		
	JP 1999-254630	A	19990908		

IT 37968-97-1, 4,4'-Dipyridylsulfide
RL: TEM (Technical or engineered material use); USES (Uses)
(base compound in neg.-working resist composition)
RN 37968-97-1 CAPLUS

CN Pyridine, 4,4'-thiobis- (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST.

13.31

174.67

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

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STRUCTURE FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

DICTIONARY FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

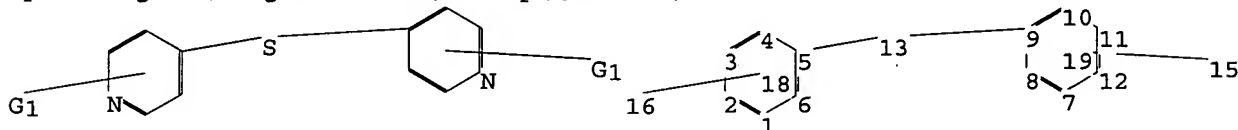
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\355z.str



chain nodes :

13 15 16

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

5-13 9-13

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

5-13 9-13

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :

2:= exact 0 12:= exact 0

Connectivity :

2:2 E exact RC ring/chain 12:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:CLASS 15:CLASS 16:CLASS 18:CLASS 19:CLASS

L8 STRUCTURE UPLOADED

=> s 18 full

FULL SEARCH INITIATED 15:19:08 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 2662 TO ITERATE

100.0% PROCESSED 2662 ITERATIONS

137 ANSWERS

SEARCH TIME: 00.00.01

L9 137 SEA SSS FUL L8

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040

L2 STRUCTURE UPLOADED

L3 QUE L2 NOT L1

L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION

L6 95 S L4

L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED

L9 137 S L8 FULL

=> s 14 not 19

L10 20 L4 NOT L9

=> d 1-4

L10 ANSWER 1 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN

RN 119276-14-1 REGISTRY

CN 3-Stilbazole, 4,4'-thiodi-, 1,1'-dioxide (6CI) (CA INDEX NAME)

MF C26 H20 N2 O2 S

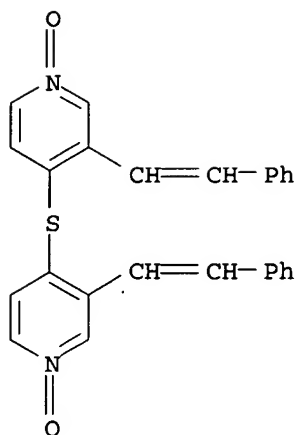
SR CAOLD

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS

(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal

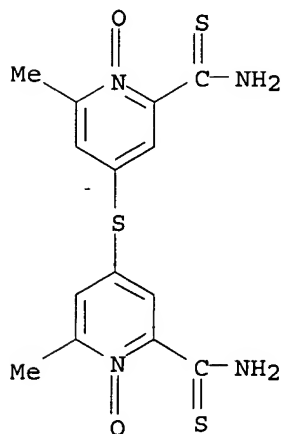
RL.NP Roles from non-patents: NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L10 ANSWER 2 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 104711-68-4 REGISTRY
 CN 2-Pyridinecarbothioamide, 4,4'-thiobis[6-methyl-, 1,1'-dioxide (9CI) (CA INDEX NAME)
 FS 3D CONCORD
 MF C14 H14 N4 O2 S3
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

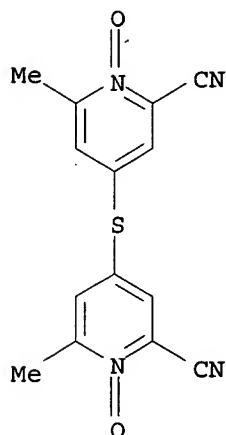


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 3 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 104711-67-3 REGISTRY
 CN 2-Pyridinecarbonitrile, 4,4'-thiobis[6-methyl-, 1,1'-dioxide (9CI) (CA

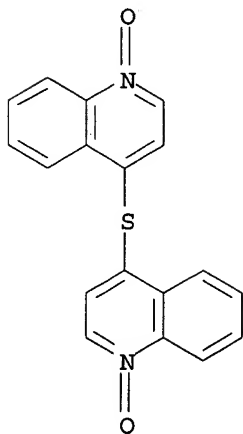
INDEX NAME)
 FS 3D CONCORD
 MF C14 H10 N4 O2 S
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
 RACT (Reactant or reagent); USES (Uses)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L10 ANSWER 4 OF 20 REGISTRY COPYRIGHT 2004 ACS on STN
 RN 94753-53-4 REGISTRY
 CN Quinoline, 4,4'-thiodi-, 1,1'-dioxide (6CI, 7CI) (CA INDEX NAME)
 MF C18 H12 N2 O2 S
 LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
 (*File contains numerically searchable property data)
 DT.CA Caplus document type: Journal
 RL.NP Roles from non-patents: NORL (No role in record)



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5 REFERENCES IN FILE CA (1907 TO DATE)
 5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
 2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
 L2 STRUCTURE UPLOADED
 L3 QUE L2 NOT L1
 L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

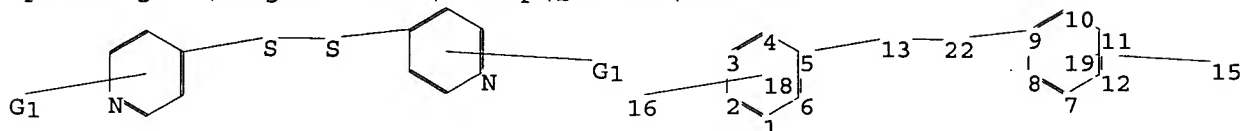
L5 38894 S PHOTORESIST OR RESIST COMPOSITION
 L6 95 S L4
 L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
 L9 137 S L8 FULL
 L10 20 S L4 NOT L9

=>

Uploading C:\Program Files\Stnexp\Queries\355x.str



chain nodes :

13 15 16 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

5-13 9-22 13-22

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

5-13 9-22 13-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :

2:= exact 0 12:= exact 0

Connectivity :

2:2 E exact RC ring/chain 12:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 13:CLASS 15:CLASS 16:CLASS 18:CLASS 19:CLASS 22:CLASS

L11 STRUCTURE UPLOADED

=> s l11 full
FULL SEARCH INITIATED 15:20:02 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 477 TO ITERATE

100.0% PROCESSED 477 ITERATIONS 84 ANSWERS
SEARCH TIME: 00.00.01

L12 84 SEA SSS FUL L11

=> file caplus
COST IN U.S. DOLLARS SINCE FILE TOTAL
ENTRY SESSION
FULL ESTIMATED COST 317.92 492.59

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004
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FILE COVERS 1907 - 1 Dec 2004 VOL 141 ISS 23
FILE LAST UPDATED: 29 Nov 2004 (20041129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION
L6 95 S L4
L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
L9 137 S L8 FULL
L10 20 S L4 NOT L9
L11 STRUCTURE UPLOADED
L12 84 S L11 FULL

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004

=> s 19
L13 88 L9

=> s l12

L14 363 L12

=> s 15 and 113

L15 1 L5 AND L13

=> s 15 and 114

L16 0 L5 AND L14

=> d 115

L15 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2000:772288 CAPLUS

DN 133:357238

TI Negative-working resist composition

IN Suetsugu, Masumi; Kusumoto, Takehiro; Takeyama, Naoki; Shinada, Masanori

PA Sumitomo Chemical Co., Ltd., Japan

SO Ger. Offen., 12 pp.

CODEN: GWXXBX

DT Patent

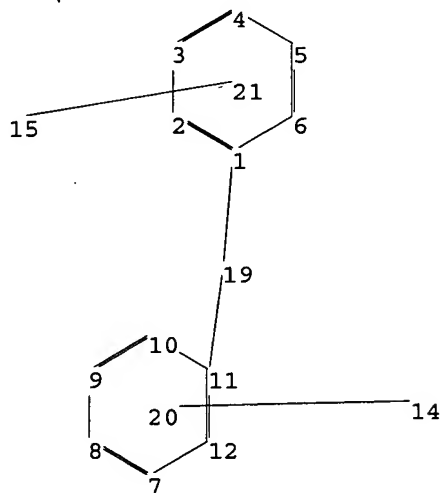
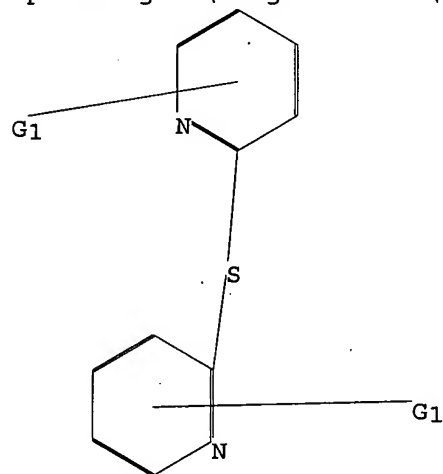
LA German

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 10021298	A1	20001102	DE 2000-10021298	20000502
	JP 2001147530	A2	20010529	JP 2000-88790	20000328
	TW 550268	B	20030901	TW 2000-89108000	20000427
	GB 2349479	A1	20001101	GB 2000-10477	20000428
	GB 2349479	B2	20010905		
	US 6329119	B1	20011211	US 2000-559646	20000428
PRAI	JP 1999-124526	A	19990430		
	JP 1999-254630	A	19990908		

=>

Uploading C:\Program Files\Stnexp\Queries\355w.str



chain nodes :

14 15 19

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-19 11-19

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-19 11-19

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :

2:= exact 0 12:= exact 0

Connectivity :

2:2 E exact RC ring/chain 12:2 E exact RC ring/chain

Match level :

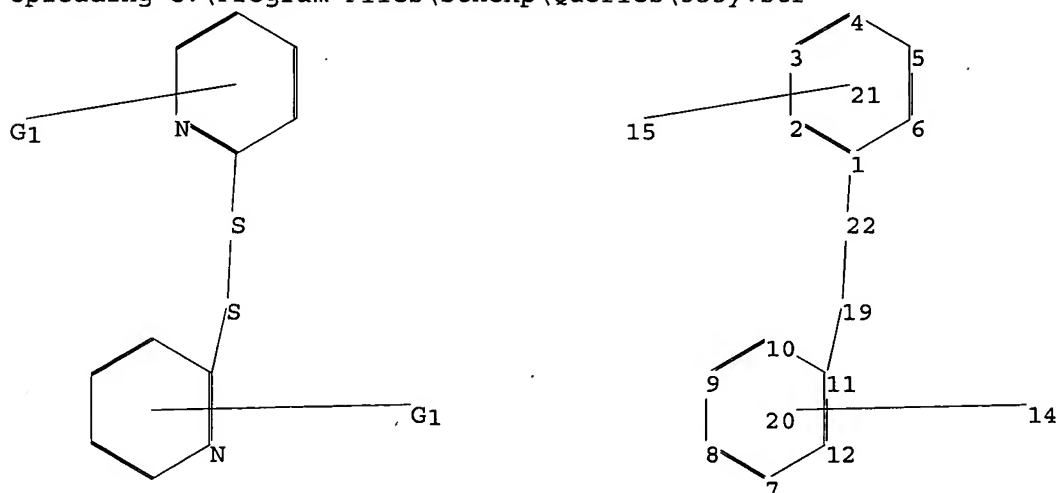
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS

L17 STRUCTURE UPLOADED

=>

Uploading C:\Program Files\Stnexp\Queries\355y.str



chain nodes :

14 15 19 22

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12

chain bonds :

1-22 11-19 19-22

ring bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

exact/norm bonds :

1-22 11-19 19-22

normalized bonds :

1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :

2:= exact 0 12:= exact 0

Connectivity :

2:2 E exact RC ring/chain 12:2 E exact RC ring/chain

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom

11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L18 STRUCTURE UPLOADED

=> s l17 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:25:40 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 589 TO ITERATE

100.0% PROCESSED 589 ITERATIONS 259 ANSWERS
SEARCH TIME: 00.00.01

L19 259 SEA SSS FUL L17

L20 207 L19

=> s l18 full

REGISTRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

FULL SEARCH INITIATED 15:25:48 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 572 TO ITERATE

100.0% PROCESSED 572 ITERATIONS 298 ANSWERS
SEARCH TIME: 00.00.01

L21 298 SEA SSS FUL L18

L22 1370 L21

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION
L6 95 S L4
L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
L9 137 S L8 FULL
L10 20 S L4 NOT L9
L11 STRUCTURE UPLOADED

L12 84 S L11 FULL

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004

L13 88 S L9

L14 363 S L12

L15 1 S L5 AND L13

L16 0 S L5 AND L14

L17 STRUCTURE UPLOADED

L18 STRUCTURE UPLOADED

S L17

FILE 'REGISTRY' ENTERED AT 15:25:39 ON 01 DEC 2004

L19 259 S L17 FULL

FILE 'CAPLUS' ENTERED AT 15:25:40 ON 01 DEC 2004

L20 207 S L19 FULL

S L18

FILE 'REGISTRY' ENTERED AT 15:25:48 ON 01 DEC 2004

L21 298 S L18 FULL

FILE 'CAPLUS' ENTERED AT 15:25:49 ON 01 DEC 2004

L22 1370 S L21 FULL

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.44

809.33

FILE 'REGISTRY' ENTERED AT 15:26:24 ON 01 DEC 2004

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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

DICTIONARY FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

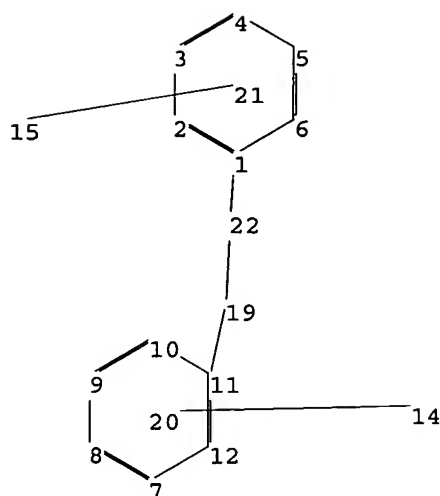
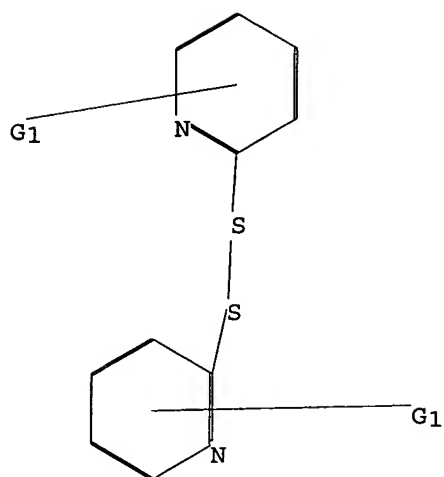
Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:

<http://www.cas.org/ONLINE/DBSS/registryss.html>

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Uploading C:\Program Files\Stnexp\Queries\355y.str



```

chain nodes :
14 15 19 22
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
1-22 11-19 19-22
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
1-22 11-19 19-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

```

G1:H,Ak

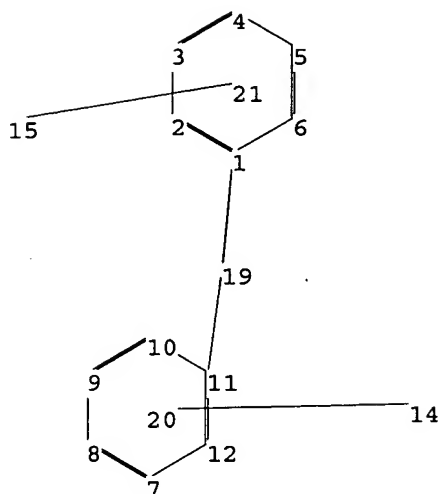
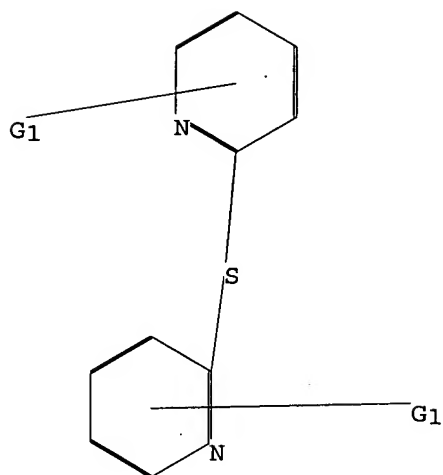
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Hydrogen count :
2:= exact 0 12:= exact 0
Connectivity :
2:2 E exact RC ring/chain 12:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

```

L23 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\355w.str



chain nodes :
 14 15 19
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12
 chain bonds :
 1-19 11-19
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
 exact/norm bonds :
 1-19 11-19
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :
 2:= exact 0 12:= exact 0
 Connectivity :
 2:2 E exact RC ring/chain 12:2 E exact RC ring/chain
 Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS

L24 STRUCTURE UPLOADED

=> s l23 full
 FULL SEARCH INITIATED 15:27:06 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 572 TO ITERATE

100.0% PROCESSED 572 ITERATIONS 298 ANSWERS
 SEARCH TIME: 00.00.01

L25 298 SEA SSS FUL L23

=> s l24 full
 FULL SEARCH INITIATED 15:27:11 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 589 TO ITERATE

100.0% PROCESSED 589 ITERATIONS 259 ANSWERS
 SEARCH TIME: 00.00.01

L26 259 SEA SSS FUL L24

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

310.42

1119.75

FILE 'CAPLUS' ENTERED AT 15:27:15 ON 01 DEC 2004

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FILE COVERS 1907 - 1 Dec 2004 VOL 141 ISS 23

FILE LAST UPDATED: 29 Nov 2004 (20041129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 15 and 125

1370 L25

L27 3 L5 AND L25

=> s 15 and 126

207 L26

L28 1 L5 AND L26

=> d 127 1-3 bib hitstr

L27 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1998:265903 CAPLUS

DN 128:315118

TI Positive **photoresist** composition comprising dipyridyl compound

IN Fukui, Nobuhito; Yako, Yuko; Takagaki, Hiroshi; Takahashi, Kenji

PA Sumitomo Chemical Co., Ltd., Japan

SO Eur. Pat. Appl., 10 pp.

CODEN: EPXXDW

DT Patent

LA English

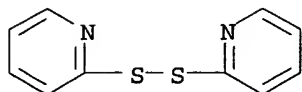
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	EP 837367	A2	19980422	EP 1997-117863	19971015
	EP 837367	A3	19990421		
	EP 837367	B1	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10301264	A2	19981113	JP 1997-233671	19970829
	US 5891601	A	19990406	US 1997-950586	19971015
PRAI	JP 1996-273333	A	19961016		
	JP 1997-43778	A	19970227		
OS	MARPAT 128:315118				
IT	2127-03-9				
	RL: TEM (Technical or engineered material use); USES (Uses)				

(chemical amplified pos. photoresists containing)

RN 2127-03-9 CAPLUS

CN Pyridine, 2,2'-dithiobis- (9CI) (CA INDEX NAME)



L27 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:438680 CAPLUS

DN 115:38680

TI Photosensitive composition

IN Niki, Hirokazu; Onishi, Yasunobu; Kobayashi, Yoshihito; Hayase, Rumiko

PA Toshiba Corp., Japan

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 397474	A2	19901114	EP 1990-305004	19900509
	EP 397474	A3	19911106		
	EP 397474	B1	19971210		
	R: DE, FR, GB				
	US 5100768	A	19920331	US 1990-519397	19900504
	JP 03241354	A2	19911028	JP 1990-117458	19900509
PRAI	JP 1989-115478	A	19890509		
	JP 1989-328242	A	19891220		

OS MARPAT 115:38680

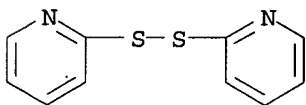
IT 4262-15-1

RL: USES (Uses)

(photosensitive composition containing, for fine patterning)

RN 4262-15-1 CAPLUS

CN Pyridine, 2,2'-dithiobis-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L27 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:237652 CAPLUS

DN 114:237652

TI Far-UV photosensitive polymer compositions containing silsesquioxanes

IN Sakata, Yoshikazu; Ito, Toshio

PA Oki Electric Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

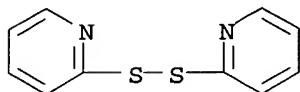
DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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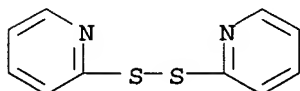
PI JP 02222957 A2 19900905 JP 1989-44358 19890223
 PRAI JP 1989-44358 19890223
 IT 2127-03-9, 2,2'-Dipyridyl disulfide
 RL: USES (Uses)
 (far UV photosensitive, for silsesquioxane photosensitive compns.)
 RN 2127-03-9 CAPLUS
 CN Pyridine, 2,2'-dithiobis- (9CI) (CA INDEX NAME)



=> d 127 1-3 bib ab hitstr

L27 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1998:265903 CAPLUS
 DN 128:315118
 TI Positive **photoresist** composition comprising dipyridyl compound
 IN Fukui, Nobuhito; Yako, Yuko; Takagaki, Hiroshi; Takahashi, Kenji
 PA Sumitomo Chemical Co., Ltd., Japan
 SO Eur. Pat. Appl., 10 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 837367	A2	19980422	EP 1997-117863	19971015
	EP 837367	A3	19990421		
	EP 837367	B1	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10301264	A2	19981113	JP 1997-233671	19970829
	US 5891601	A	19990406	US 1997-950586	19971015
PRAI	JP 1996-273333	A	19961016		
	JP 1997-43778	A	19970227		
OS	MARPAT 128:315118				
AB	A pos. photoresist composition of chemical amplifying type, which is excellent in sensitivity, resolution, heat resistance, film retention ratio, applicability, profile, and time delay effect resistance, comprises (A) a resin which is converted to alkali-soluble from alkali-insol. or alkali-slightly soluble by the action of an acid, (B) an acid generator and (C) a dipyridyl compound represented by the formula I wherein Z represents an organic bonding group having at least one hetero atom and R1-6 each independently represent hydrogen or an alkyl group having 1 to 4 carbon atoms.				
IT	2127-03-9 RL: TEM (Technical or engineered material use); USES (Uses) (chemical amplified pos. photoresists containing)				
RN	2127-03-9 CAPLUS				
CN	Pyridine, 2,2'-dithiobis- (9CI) (CA INDEX NAME)				



L27 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:438680 CAPLUS

DN 115:38680

TI Photosensitive composition

IN Niki, Hirokazu; Onishi, Yasunobu; Kobayashi, Yoshihito; Hayase, Rumiko

PA Toshiba Corp., Japan

SO Eur. Pat. Appl., 42 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 397474	A2	19901114	EP 1990-305004	19900509
	EP 397474	A3	19911106		
	EP 397474	B1	19971210		
	R: DE, FR, GB				
	US 5100768	A	19920331	US 1990-519397	19900504
	JP 03241354	A2	19911028	JP 1990-117458	19900509
PRAI	JP 1989-115478	A	19890509		
	JP 1989-328242	A	19891220		

OS MARPAT 115:38680

AB A photosensitive composition is described containing an alkali-soluble polymer having

a phenol skeleton in its structure, and a heterocyclic compound, e.g., I or II [Z1 = atoms to form a N-containing heterocyclic ring; R1, R2 = H, alkyl, alkoxy, acyl, alkenyl, OH, amine, etc.]. The composition is useful as deep-UV **photoresist** in fine patterning. The material has high dry etching resistance and wide allowance in controlling exposure and development steps.

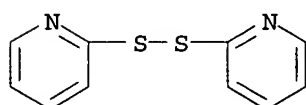
IT 4262-15-1

RL: USES (Uses)

(photosensitive composition containing, for fine patterning)

RN 4262-15-1 CAPLUS

CN Pyridine, 2,2'-dithiobis-, dihydrochloride (9CI) (CA INDEX NAME)



●2 HCl

L27 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN

AN 1991:237652 CAPLUS

DN 114:237652

TI Far-UV photosensitive polymer compositions containing silsesquioxanes

IN Sakata, Yoshikazu; Ito, Toshio

PA Oki Electric Industry Co., Ltd., Japan

SO Jpn. Kokai Tokkyo Koho, 8 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 02222957	A2	19900905	JP 1989-44358	19890223
PRAI	JP 1989-44358		19890223		

AB The title composition contains a base polymer comprising a silsesquioxane derivative having an unsatd. group and(or) an alkyl group and a

photosensitizer comprising an aromatic compound having a heteroatom-heteroatom bond as in di-Ph disulfide which absorbs light in the far UV region and generates heteroat. radicals.

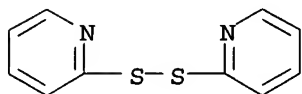
IT 2127-03-9, 2,2'-Dipyridyl disulfide

RL: USES (Uses)

(far UV photosensitive, for silsesquioxane photosensitive compns.)

RN 2127-03-9 CAPLUS

CN Pyridine, 2,2'-dithiobis- (9CI) (CA INDEX NAME)



=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION
L6 95 S L4
L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
L9 137 S L8 FULL
L10 20 S L4 NOT L9
L11 STRUCTURE UPLOADED
L12 84 S L11 FULL

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004

L13 88 S L9
L14 363 S L12
L15 1 S L5 AND L13
L16 0 S L5 AND L14
L17 STRUCTURE UPLOADED
L18 STRUCTURE UPLOADED
S L17

FILE 'REGISTRY' ENTERED AT 15:25:39 ON 01 DEC 2004

L19 259 S L17 FULL

FILE 'CAPLUS' ENTERED AT 15:25:40 ON 01 DEC 2004

L20 207 S L19 FULL
S L18

FILE 'REGISTRY' ENTERED AT 15:25:48 ON 01 DEC 2004

L21 298 S L18 FULL

FILE 'CAPLUS' ENTERED AT 15:25:49 ON 01 DEC 2004

L22 1370 S L21 FULL

FILE 'REGISTRY' ENTERED AT 15:26:24 ON 01 DEC 2004

L23 STRUCTURE UPLOADED
L24 STRUCTURE UPLOADED

L25 298 S L23 FULL
L26 259 S L24 FULL

FILE 'CAPLUS' ENTERED AT 15:27:15 ON 01 DEC 2004

L27 3 S L5 AND L25
L28 1 S L5 AND L26

=> d l28 bib

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:265903 CAPLUS
DN 128:315118
TI Positive **photoresist** composition comprising dipyridyl compound
IN Fukui, Nobuhito; Yako, Yuko; Takagaki, Hiroshi; Takahashi, Kenji
PA Sumitomo Chemical Co., Ltd., Japan
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 837367	A2	19980422	EP 1997-117863	19971015
	EP 837367	A3	19990421		
	EP 837367	B1	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10301264	A2	19981113	JP 1997-233671	19970829
	US 5891601	A	19990406	US 1997-950586	19971015
PRAI	JP 1996-273333	A	19961016		
	JP 1997-43778	A	19970227		
OS	MARPAT 128:315118				

=> d l28 bib ab hitstr

L28 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
AN 1998:265903 CAPLUS
DN 128:315118
TI Positive **photoresist** composition comprising dipyridyl compound
IN Fukui, Nobuhito; Yako, Yuko; Takagaki, Hiroshi; Takahashi, Kenji
PA Sumitomo Chemical Co., Ltd., Japan
SO Eur. Pat. Appl., 10 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 837367	A2	19980422	EP 1997-117863	19971015
	EP 837367	A3	19990421		
	EP 837367	B1	20020410		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
	JP 10301264	A2	19981113	JP 1997-233671	19970829
	US 5891601	A	19990406	US 1997-950586	19971015
PRAI	JP 1996-273333	A	19961016		
	JP 1997-43778	A	19970227		
OS	MARPAT 128:315118				
AB	A pos. photoresist composition of chemical amplifying type, which is excellent in sensitivity, resolution, heat resistance, film retention ratio, applicability, profile, and time delay effect resistance, comprises (A) a resin which is converted to alkali-soluble from alkali-insol. or alkali-slightly soluble by the action of an acid, (B) an acid generator and (C) a dipyridyl compound represented by the formula I wherein Z represents				

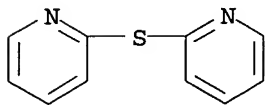
an organic bonding group having at least one hetero atom and R1-6 each independently represent hydrogen or an alkyl group having 1 to 4 carbon atoms.

IT 4262-06-0

RL: TEM (Technical or engineered material use); USES (Uses)
(chemical amplified pos. photoresists containing)

RN 4262-06-0 CAPLUS

CN Pyridine, 2,2'-thiobis- (9CI) (CA INDEX NAME)



=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

34.75

1154.50

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

CA SUBSCRIBER PRICE

-2.80

-2.80

FILE 'REGISTRY' ENTERED AT 15:33:46 ON 01 DEC 2004

USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

DICTIONARY FILE UPDATES: 29 NOV 2004 HIGHEST RN 790629-40-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

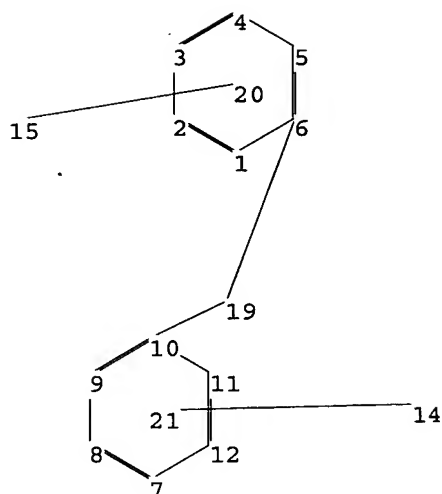
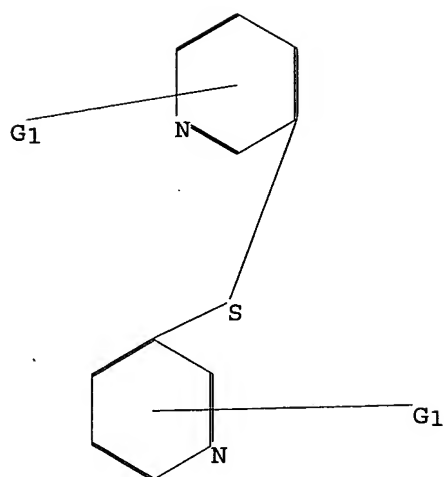
Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=>

Uploading C:\Program Files\Stnexp\Queries\355q.str



```

chain nodes :
14 15 19
ring nodes :
1 2 3 4 5 6 7 8 9 10 11 12
chain bonds :
6-19 10-19
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
exact/norm bonds :
6-19 10-19
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

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G1:H,Ak

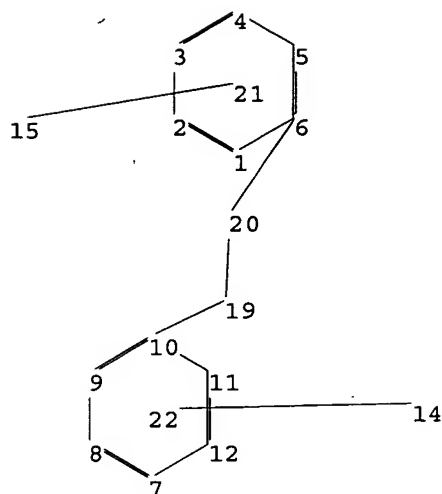
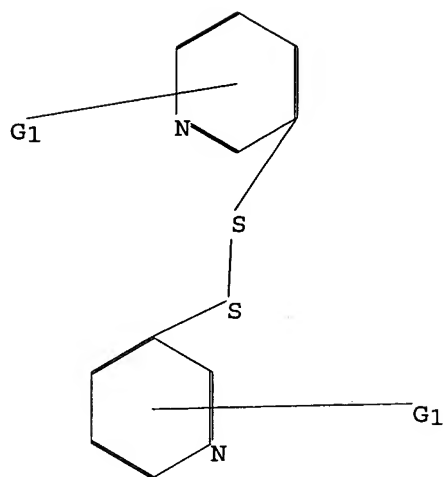
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Hydrogen count :
2:= exact 0 12:= exact 0
Connectivity :
2:2 E exact RC ring/chain 12:2 E exact RC ring/chain
Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS

```

L29 STRUCTURE UPLOADED

=>
Uploading C:\Program Files\Stnexp\Queries\355p.str



chain nodes :
 14 15 19 20
 ring nodes :
 1 2 3 4 5 6 7 8 9 10 11 12
 chain bonds :
 6-20 10-19 19-20
 ring bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12
 exact/norm bonds :
 6-20 10-19 19-20
 normalized bonds :
 1-2 1-6 2-3 3-4 4-5 5-6 7-8 7-12 8-9 9-10 10-11 11-12

G1:H,Ak

Hydrogen count :
 2:= exact 0 12:= exact 0
 Connectivity :
 2:2 E exact RC ring/chain 12:2 E exact RC ring/chain
 Match level :
 1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
 11:Atom 12:Atom 14:CLASS 15:CLASS 19:CLASS 20:CLASS 21:CLASS 22:CLASS

L30 STRUCTURE UPLOADED

=> s l29 full
 FULL SEARCH INITIATED 15:34:40 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 597 TO ITERATE

100.0% PROCESSED 597 ITERATIONS 107 ANSWERS
 SEARCH TIME: 00.00.01

L31 107 SEA SSS FUL L29

=> s l30 full
 FULL SEARCH INITIATED 15:34:44 FILE 'REGISTRY'
 FULL SCREEN SEARCH COMPLETED - 319 TO ITERATE

100.0% PROCESSED 319 ITERATIONS 74 ANSWERS
 SEARCH TIME: 00.00.01

L32 74 SEA SSS FUL L30

=> file caplus

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	310.84	1465.34

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.80

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FILE COVERS 1907 - 1 Dec 2004 VOL 141 ISS 23
FILE LAST UPDATED: 29 Nov 2004 (20041129/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s 31

L33 290543 31

=> s l32

L34 71 L32

=> d l33 1-3

L33 ANSWER 1 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:1023387 CAPLUS

TI Benefit of Lamivudine Therapy and Factors Associated with Clinical Outcome in Spontaneous Severe Acute Exacerbation of Chronic Hepatitis B Virus Infection

AU Tsubota, Akihito; Arase, Yasuji; Suzuki, Yoshiyuki; Suzuki, Fumitaka; Hosaka, Tetsuya; Akuta, Norio; Someya, Takashi; Kobayashi, Masahiro; Saitoh, Satoshi; Ikeda, Kenji; Kumada, Hiromitsu

CS Institute of Clinical Medicine and Research (ICMR), Jikei University School of Medicine, Chiba, Japan

SO Intervirology (2004), 47(6), 335-341

CODEN: IVRYAK; ISSN: 0300-5526

PB S. Karger AG

DT Journal

LA English

L33 ANSWER 2 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:1023236 CAPLUS

TI Water leaching and magnetic separation for decreasing the chloride level and upgrading the zinc content of EAF steelmaking baghouse dusts

AU Bruckard, W. J.; Davey, K. J.; Rodopoulos, T.; Woodcock, J. T.; Italiano, J.

CS CSIRO Minerals, Box 312, Clayton South, 3169, Australia

SO International Journal of Mineral Processing (2005), 75(1-2), 1-20
CODEN: IJMPBL; ISSN: 0301-7516
PB Elsevier B.V.
DT Journal
LA English

L33 ANSWER 3 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:1023174 CAPLUS
TI Potentialities of GaN-based microcavities in strong coupling regime at
room temperature
AU Antoine-Vincent, N.; Natali, F.; Byrne, D.; Disseix, P.; Vasson, A.;
Leymarie, J.; Semond, F.; Massies, J.
CS UMR 6602 UBP/CNRS, LASMEA, 24 Avenue des Landais, Aubie`re, 63177, Fr.
SO Superlattices and Microstructures (2004), 36(4-6), 599-606
CODEN: SUMIEK; ISSN: 0749-6036
PB Elsevier B.V.
DT Journal
LA English

=> d l33 1-3 hitstr

L33 ANSWER 1 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN

L33 ANSWER 2 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN

L33 ANSWER 3 OF 290543 CAPLUS COPYRIGHT 2004 ACS on STN

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION
L6 95 S L4
L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
L9 137 S L8 FULL
L10 20 S L4 NOT L9
L11 STRUCTURE UPLOADED
L12 84 S L11 FULL

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004

L13 88 S L9
L14 363 S L12
L15 1 S L5 AND L13
L16 0 S L5 AND L14
L17 STRUCTURE UPLOADED
L18 STRUCTURE UPLOADED
S L17

FILE 'REGISTRY' ENTERED AT 15:25:39 ON 01 DEC 2004

L19 259 S L17 FULL

FILE 'CAPLUS' ENTERED AT 15:25:40 ON 01 DEC 2004

L20 207 S L19 FULL

S L18

L21 FILE 'REGISTRY' ENTERED AT 15:25:48 ON 01 DEC 2004
298 S L18 FULL

L22 FILE 'CAPLUS' ENTERED AT 15:25:49 ON 01 DEC 2004
1370 S L21 FULL

L23 FILE 'REGISTRY' ENTERED AT 15:26:24 ON 01 DEC 2004
STRUCTURE UPLOADED
L24 STRUCTURE UPLOADED
L25 298 S L23 FULL
L26 259 S L24 FULL

L27 FILE 'CAPLUS' ENTERED AT 15:27:15 ON 01 DEC 2004
3 S L5 AND L25
L28 1 S L5 AND L26

L29 FILE 'REGISTRY' ENTERED AT 15:33:46 ON 01 DEC 2004
STRUCTURE UPLOADED
L30 STRUCTURE UPLOADED
L31 107 S L29 FULL
L32 74 S L30 FULL

L33 FILE 'CAPLUS' ENTERED AT 15:34:48 ON 01 DEC 2004
290543 S 31
L34 71 S L32

=> s 15 and l33
L35 341 L5 AND L33

=> d 1-4 bib hitstr

L35 ANSWER 1 OF 341 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:999192 CAPLUS
TI Method for fabricating contact hole of semiconductor device
IN Hwang, Yeong Seon; Kim, Hyeong Su; Shin, Gi Su
PA Hynix Semiconductor Inc., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	KR 2003092571	A	20031206	KR 2002-30277	20020530
PRAI	KR 2002-30277		20020530		

L35 ANSWER 2 OF 341 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:999191 CAPLUS
TI Method for fabricating semiconductor device
IN Kim, Jong Su
PA Hynix Semiconductor Inc., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	KR 2003092569	A	20031206	KR 2002-30275	20020530
PRAI	KR 2002-30275		20020530		

L35 ANSWER 3 OF 341 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:999054 CAPLUS

TI Method for forming photoresist pattern of semiconductor device
IN Bok, Cheol Gyu
PA Hynix Semiconductor Inc., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003089979	A	20031128	KR 2002-27916	20020520
PRAI	KR 2002-27916		20020520		

L35 ANSWER 4 OF 341 CAPLUS COPYRIGHT 2004 ACS on STN
AN 2004:995042 CAPLUS
TI Method for manufacturing semiconductor device with anti-reflective coating layer
IN Kim, Dae Hyeon
PA Hynix Semiconductor Inc., S. Korea
SO Repub. Korean Kongkae Taeho Kongbo, No pp. given
CODEN: KRXXA7
DT Patent
LA Korean
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	KR 2003059389	A	20030710	KR 2001-88249	20011229
PRAI	KR 2001-88249		20011229		

=> d his

(FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004

L1 SCREEN 2040
L2 STRUCTURE UPLOADED
L3 QUE L2 NOT L1
L4 153 S L3 FULL

FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004

L5 38894 S PHOTORESIST OR RESIST COMPOSITION
L6 95 S L4
L7 1 S L5 AND L6

FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004

L8 STRUCTURE UPLOADED
L9 137 S L8 FULL
L10 20 S L4 NOT L9
L11 STRUCTURE UPLOADED
L12 84 S L11 FULL

FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004

L13 88 S L9
L14 363 S L12
L15 1 S L5 AND L13
L16 0 S L5 AND L14
L17 STRUCTURE UPLOADED
L18 STRUCTURE UPLOADED
S L17

FILE 'REGISTRY' ENTERED AT 15:25:39 ON 01 DEC 2004

L19 259 S L17 FULL

FILE 'CAPLUS' ENTERED AT 15:25:40 ON 01 DEC 2004

L20 207 S L19 FULL
 S L18

 L21 FILE 'REGISTRY' ENTERED AT 15:25:48 ON 01 DEC 2004
 298 S L18 FULL

 L22 FILE 'CAPLUS' ENTERED AT 15:25:49 ON 01 DEC 2004
 1370 S L21 FULL

 L23 FILE 'REGISTRY' ENTERED AT 15:26:24 ON 01 DEC 2004
 STRUCTURE UPLOADED
 L24 STRUCTURE UPLOADED
 L25 298 S L23 FULL
 L26 259 S L24 FULL

 L27 FILE 'CAPLUS' ENTERED AT 15:27:15 ON 01 DEC 2004
 3 S L5 AND L25
 L28 1 S L5 AND L26

 L29 FILE 'REGISTRY' ENTERED AT 15:33:46 ON 01 DEC 2004
 STRUCTURE UPLOADED
 L30 STRUCTURE UPLOADED
 L31 107 S L29 FULL
 L32 74 S L30 FULL

 L33 FILE 'CAPLUS' ENTERED AT 15:34:48 ON 01 DEC 2004
 290543 S 31
 L34 71 S L32
 L35 341 S L5 AND L33

 => s l31
 L36 58 L31

 => s l5 and l36
 L37 0 L5 AND L36

 => s l5 and l34
 L38 0 L5 AND L34

 => d his

 (FILE 'HOME' ENTERED AT 15:12:13 ON 01 DEC 2004)

 L1 FILE 'REGISTRY' ENTERED AT 15:12:24 ON 01 DEC 2004
 SCREEN 2040
 L2 STRUCTURE UPLOADED
 L3 QUE L2 NOT L1
 L4 153 S L3 FULL

 L5 FILE 'CAPLUS' ENTERED AT 15:13:37 ON 01 DEC 2004
 38894 S PHOTORESIST OR RESIST COMPOSITION
 L6 95 S L4
 L7 1 S L5 AND L6

 L8 FILE 'REGISTRY' ENTERED AT 15:18:37 ON 01 DEC 2004
 STRUCTURE UPLOADED
 L9 137 S L8 FULL
 L10 20 S L4 NOT L9
 L11 STRUCTURE UPLOADED
 L12 84 S L11 FULL

 L13 FILE 'CAPLUS' ENTERED AT 15:20:06 ON 01 DEC 2004
 88 S L9
 L14 363 S L12
 L15 1 S L5 AND L13

L16 0 S L5 AND L14
L17 STRUCTURE UPLOADED
L18 STRUCTURE UPLOADED
S L17

FILE 'REGISTRY' ENTERED AT 15:25:39 ON 01 DEC 2004
L19 259 S L17 FULL

FILE 'CAPLUS' ENTERED AT 15:25:40 ON 01 DEC 2004
L20 207 S L19 FULL
S L18

FILE 'REGISTRY' ENTERED AT 15:25:48 ON 01 DEC 2004
L21 298 S L18 FULL

FILE 'CAPLUS' ENTERED AT 15:25:49 ON 01 DEC 2004
L22 1370 S L21 FULL

FILE 'REGISTRY' ENTERED AT 15:26:24 ON 01 DEC 2004
L23 STRUCTURE UPLOADED
L24 STRUCTURE UPLOADED
L25 298 S L23 FULL
L26 259 S L24 FULL

FILE 'CAPLUS' ENTERED AT 15:27:15 ON 01 DEC 2004
L27 3 S L5 AND L25
L28 1 S L5 AND L26

FILE 'REGISTRY' ENTERED AT 15:33:46 ON 01 DEC 2004
L29 STRUCTURE UPLOADED
L30 STRUCTURE UPLOADED
L31 107 S L29 FULL
L32 74 S L30 FULL

FILE 'CAPLUS' ENTERED AT 15:34:48 ON 01 DEC 2004
L33 290543 S 31
L34 71 S L32
L35 341 S L5 AND L33
L36 58 S L31
L37 0 S L5 AND L36
L38 0 S L5 AND L34

=>

---Logging off of STN---

=>

Executing the logoff script...

=> LOG Y

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	ENTRY	SESSION
FULL ESTIMATED COST	12.32	1477.66
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	0.00	-2.80

STN INTERNATIONAL LOGOFF AT 15:38:58 ON 01 DEC 2004

L17 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN
 AN 1984:148513 CAPLUS
 DN 100:148513
 TI Producing images in photoresist layers
 IN Irving, Edward
 PA Ciba-Geigy A.-G. , Switz.
 SO Eur. Pat. Appl., 32 pp.
 CODEN: EPXXDW
 DT Patent
 LA German
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 85024	A2	19830803	EP 1983-810016	19830117
	EP 85024	A3	19840926		
	EP 85024	B1	19870715		
	R: BE, CH, DE, FR, GB, IT, LI, NL, SE				
	US 4439517	A	19840327	US 1983-457107	19830110
	CA 1183038	A1	19850226	CA 1983-419783	19830119
	ES 519144	A1	19840516	ES 1983-519144	19830120
	JP 58136028	A2	19830812	JP 1983-8631	19830121
PRAI	GB 1982-1726	A	19820121		

AB Photoresist compns. are described which consist of an epoxy resin, a benzenoid polyamine, and an aromatic compound which upon exposure to light frees an acid that acts as an accelerator for the hardening of the epoxy resin by the benzenoid polyamine upon heating. Thus, a Cu-coated body was coated with a composition containing a 2,2-bis(3,5-dibromo-4-hydroxyphenyl)propane-2,2-bis(p-hydroxyphenyl)propane epoxy resin 10, a 1,1,2,2-tetrakis(p-hydroxyphenyl)ethane tetraglycidyl ether-2,2-bis(p-hydroxyphenyl)propane diglycidyl ether mixture 5, poly[2,2-bis(p-hydroxyphenyl)propane] 5, bis(4-aminophenyl)methane (in di-Bu phthalate) 4, o-nitrobenzaldehyde 4, and cyclohexanone 20 parts, exposed through a neg., heated at 120° for 15 min, and developed with PhMe to remove the unhardened areas and give a clear image.

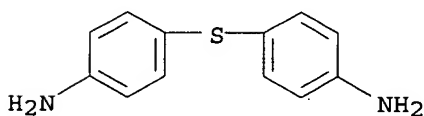
IT 139-65-1

RL: USES (Uses)

(photoresist compns. containing acid-releasing compound and epoxy resin and)

RN 139-65-1 CAPLUS

CN Benzenamine, 4,4'-thiobis- (9CI) (CA INDEX NAME)



=>